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Records for: *PN=JP 61057878*

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1. 2/19/1 (Item 1 from file: 351)

004613429
WPI Acc No: 1986-116773/ 198618
XRAM Acc No: C86-049926
XRPX Acc No: N86-085828
Rubber moulding dosimeter prodn. - by moulding mixt. of powdered crystalline alanine and synthetic or natural rubber

Patent Assignee: JAPAN ATOMIC ENERGY RES INST (JAAT)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 61057878	A	19860324	JP 84180994	A	19840830	198618	B
JP 93003548	B	19930118	JP 84180994	A	19840830	199306	

Priority Applications (No Type Date): JP 84180994 A 19840830; JP 84220232 A 19841019
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 61057878	A		9		
JP 93003548	B		8	G01T-001/04	Based on patent JP 61057878

Abstract (Basic): JP 61057878 A

Rubber moulding dosimeter is prepd. by combining alanine crystal powder 10-500 pts. wt. with 100 pts. wt. synthetic rubber or natural rubber and moulding it.

ADVANTAGE - Dose of ionising radiation such as gamma-ray, X-ray, electron ray, neutrons, etc. can be simply and accurately detd. since the radical concn. of alanine crystal alone is detd. The determn. range of dosage is 10-100 KGy. The upper usable temp. limit of the dosimeter is about 150 deg. C. Determns. of high reproducibility can be carried out in high humidity. The dosimeter can be made by press-moulding, extrusion, etc. Distribution of dose in materials of complicated shape can be detd. using belt-form, sheet-form or linear rubber moulding. (9pp Dwg.No.0/0)

Title Terms: RUBBER; MOULD; DOSIMETER; PRODUCE; MOULD; MIXTURE; POWDER; CRYSTAL; ALANINE; SYNTHETIC; NATURAL; RUBBER
Derwent Class: A97; K07; S03
International Patent Class (Main): G01T-001/04
International Patent Class (Additional): C08K-005/17; C08L-021/00; G01T-001/02
File Segment: CPI; EPI
Manual Codes (CPI/A-N): A03-B; A04-B01; A04-B01E; A12-L; A12-W11C; K08-A
Manual Codes (EPI/S-X): S03-G02A
Plasdoc Codes (KS): 0009 0212 0231 1987 2450 2459 2462 2522 2545 2706 3313
Polymer Fragment Codes (PF):
001 014 032 04- 246 257 415 450 456 458 476 502 518 623 643 726

☐ 2. 2/19/2 (Item 2 from file: 347)
01843778 RUBBER MOLDING BODY DOSIMETER

Pub. No.: 61-057878 A]
Published: March 24, 1986 (19860324)
Inventor: MORITA YOSUKE
SEGUCHI TADAO
KOJIMA TAKUJI
TANAKA RYUICHI
Applicant: JAPAN ATOM ENERGY RES INST [000409] (A Japanese Company or Corporation), JP (Japan)
Application No.: 59-180994 [JP 84180994]
Filed: August 30, 1984 (19840830)
International Class: [4] G01T-001/02; C08K-005/17; C08L-021/00
JAPIO Class: 46.1 (INSTRUMENTATION -- Measurement); 14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds); 23.1 (ATOMIC POWER -- General); 32.5 (POLLUTION CONTROL -- Radioactive Waste Treatment)
JAPIO Keyword: R003 (ELECTRON BEAM); R115 (X-RAY APPLICATIONS)
Journal: Section: P, Section No. 483, Vol. 10, No. 223, Pg. 4, August 05, 1986 (19860805)

ABSTRACT
PURPOSE: To obtain the dosimeter which measures dosage with high precision over a wide range by mixing and molding alanine crystal power with synthetic or natural rubber and utilizing the stableness of an alanine radical produced by radiation irradiation.

CONSTITUTION: 10-500pts.wt. alanine crystal powder is mixed uniformly with 100pts.wt. synthetic or natural rubber and a cross-linking treatment is carried out so as to improve heat resistance when necessary, and the mixture is used for a dosimeter element. Alanine crystal has a 293 deg.C fusion point and is kneaded with the rubber at 100-140 deg.C below the

Consequently, there is almost no radical generation due to radiation irradiation and a radical generated in the alanine crystal is stable and the rubber cuts off the moisture in air, so there is no influence of environment exerted and a measurement of dosage is taken with good reproducibility and precision over a wide range of 10Gy-100KGy.

☐ 3.

2/19/3 (Item 3 from file: 345)

5473748
Basic Patent (No,Kind,Date): JP 61057878 A2 860324

PATENT FAMILY:
JAPAN (JP)
Patent (No,Kind,Date): JP 61057878 A2 860324
RUBBER MOLDING BODY DOSIMETER (English)
Patent Assignee: JAPAN ATOMIC ENERGY RES INST
Author (Inventor): MORITA YOSUKE; SEGUCHI TADAO; KOJIMA TAKUJI; TANAKA RYUICHI
Priority (No,Kind,Date): JP 84180994 A 840830
Applic (No,Kind,Date): JP 84180994 A 840830
IPC: * G01T-001/02; C08K-005/17; C08L-021/00
CA Abstract No: * 105(12)104481K
Derwent WPI Acc No: * C 86-116773
JAPIO Reference No: * 100223P000004
Language of Document: Japanese
Patent (No,Kind,Date): JP 61097585 A2 860516
DOSIMETER FOR RESIN MOLDING (English)
Patent Assignee: JAPAN ATOMIC ENERGY RES INST
Author (Inventor): MORITA YOSUKE; SEGUCHI TADAO; KOJIMA TAKUJI; TANAKA RYUICHI
Priority (No,Kind,Date): JP 84220232 A 841019
Applic (No,Kind,Date): JP 84220232 A 841019
IPC: * G01T-001/02
CA Abstract No: * 105(24)215552D
Derwent WPI Acc No: * C 86-178226
JAPIO Reference No: * 100274P000129
Language of Document: Japanese
Patent (No,Kind,Date): JP 93003548 B4 930118
Patent Assignee: JAPAN ATOMIC ENERGY RES INST
Author (Inventor): MORITA YOSUKE; SEGUCHI TADAO; KOJIMA TAKUJI; TANAKA RYUICHI
Priority (No,Kind,Date): JP 84180994 A 840830
Applic (No,Kind,Date): JP 84180994 A 840830
IPC: * G01T-001/04
Language of Document: Japanese
Patent (No,Kind,Date): JP 93003914 B4 930118
Patent Assignee: JAPAN ATOMIC ENERGY RES INST
Author (Inventor): MORITA YOSUKE; SEGUCHI TADAO; KOJIMA TAKUJI; TANAKA RYUICHI
Priority (No,Kind,Date): JP 84220232 A 841019
Applic (No,Kind,Date): JP 84220232 A 841019

Patent No,Kind,Date

MOLDED DOSIMETER CONTAINING A RUBBER AND POWDERED CRYSTALLINE ALANINE **(English)**
Patent Assignee: JAPAN ATOMIC ENERGY RES INST (JP)
Author (Inventor): MORITA YOUSUKE (JP); SEGUCHI TADAO (JP); KOJIMA TAKUJI (JP); TANAKA RYUICHI (JP)
Priority (No,Kind,Date): JP 84180994 A 840830; JP 84220232 A 841019
Applic (No,Kind,Date): US 770948 A 850829
National Class: * US 523136000; US 524017000; US 524018000; US 524023000; US 524024000
IPC: * C08K-005/16; G21F-001/10; G01T-001/02; C08L-021/00
Language of Document: English

UNITED STATES OF AMERICA (US)
Legal Status (No,Type,Date,Code,Text):

US 4668714	P	840830	US AA	PRIORITY (PATENT) JP 84180994 A 840830
US 4668714	P	841019	US AA	PRIORITY (PATENT) JP 84220232 A 841019
US 4668714	P	850829	US AE	APPL. DATA (PATENT) US 770948 A 850829
US 4668714	P	850829	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST JAPAN ATOMIC ENERGY RESEACH INSTITUTE, 2-2, UCHISAIWAI-CHO, 2-CHOME, CHIYODA-KU, ; MORITA, YOUSUKE : 19850820; SEGUCHI, TADAO : 19850820; KOJIMA, TAKUJI : 19850820; TANAKA, RYUICHI : 19850820
US 4668714	P	870526	US A	PATENT

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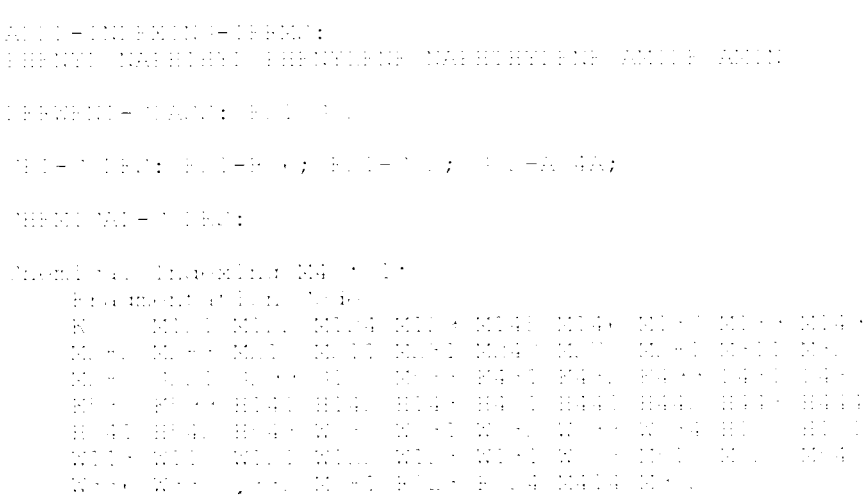

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2	18	"4" adj hydroxybutylate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/07 14:14
3	16	("3" adj hydroxybutylate) same ("4" adj hydroxybutylate)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/07 14:14